

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 13. (Canceled)

14. (New) A target assembly comprising:

a rotatable target tube; and

a central body,

wherein said central body comprises interior to said tube:

 a bearing system for rotatably supporting said tube by said body,

 at least one rotatable coolant seal for supplying coolant to or extracting coolant from said tube through said body, and

 at least one rotatable vacuum seal for enabling a vacuum outside said tube.

15. (New) The target assembly according to claim 14, further comprising an electrical contact for rotatably connecting said body with said tube, said contact being interior to said tube.

16. (New) The target assembly according to claim 14, further comprising a drive means for rotating said tube relative to said body, said drive means being interior to said tube.

17. (New) The target assembly according to claim 16, wherein said drive means is an electrical rotary motor.

18. (New) The target assembly according to claim 17, wherein said electrical rotary motor is a fixed axis, rotating drum motor.

19. (New) The target assembly according to claim 16, wherein said drive means is a hydraulic rotary motor

20. (New) The target assembly according to claim 19, wherein said hydraulic rotary motor is driven by the coolant.

21. (New) A sputtering apparatus positioned within chamber walls of an evacuable chamber comprising:

a target assembly as in claim 14, and

a first coupling means and a second coupling means connected to said chamber walls for removably coupling said body to said first and second coupling means.

22. (New) A sputtering apparatus positioned within walls of an evacuable chamber comprising:

a target assembly as in claim 14, and

one coupling means connected to said walls for removably coupling said body to said one coupling means.

23. (New) A target assembly comprising:

a rotatable target tube;

a first central body; and

a second central body,

wherein said first and second central bodies comprise interior to said tube:

a bearing system for rotatably supporting said tube by said first body or said second body,

at least one rotatable coolant seal for supplying coolant to or extracting coolant from said tube through said first body or said second body, and

at least one rotatable vacuum seal for enabling a vacuum outside said tube.

24. (New) The target assembly according to claim 23, further comprising an electrical contact for rotatably connecting said first body or said second body with said tube, said contact being interior to said tube.

25. (New) The target assembly according to claim 23, further comprising a drive means for rotating said tube relative to said first and second bodies, said drive means being interior to said tube.

26. (New) The target assembly as in claim 23, wherein said first and second bodies are coupled to one another.

27. (New) A sputtering apparatus positioned within chamber walls of an evacuable chamber comprising:

a target assembly as in claim 26, and

a first coupling means and a second coupling means connected to said chamber walls for removably coupling said first and second bodies to said first and second coupling means.

28. (New) A sputtering apparatus positioned within chamber walls of an evacuable chamber comprising:

a target assembly as in claim 26, and

one coupling means connected to said chamber walls for removably coupling said first body to said one coupling means.

29. (New) A sputtering apparatus positioned within chamber walls of an evacuable chamber comprising:

a target assembly as in claim 23, and

a first coupling means and a second coupling means connected to said chamber walls for removably coupling said first and second bodies to said first and second coupling means.

30. (New) A sputtering apparatus positioned within chamber walls of an evacuable chamber comprising:

a target assembly as in claim 23, and

one coupling means connected to said chamber walls for removably coupling said first body to said one coupling means.